

MULTI-MODE PICONET/SCATTERNET**ABSTRACT OF THE DISCLOSURE**

5

10

A communication system 100 allows for heterogeneous piconets/scatternets 100 where in multiple modes 110, 112 of transmission, one of Bluetooth 110 and one or more other modes of transmission 112 are possible. While at the same time maintaining synchronization between all the different modes of transmission 110, 112 in a given piconet and across a scatternet 100. This allows for a communication device that can communicate using a plurality of transmission modes depending on the communication needs of the device.